

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A fuel cell pack including a plurality of cells each having a membrane, and a cathode at one side of the membrane and an anode at another side of the membrane, collector plates contacting the cathode and the anode, respectively, in each cell, and an electrical connection member for electrically connecting adjacent cells, at least two cells being provided, the cells being evenly disposed in a plane with a an enclosed, contiguous hollow space interposed between two adjacent cells, the electrical connection member being positioned in the enclosed, contiguous hollow space, the fuel cell pack comprising:

a porous fuel diffusion member contacting the anode of each cell;

a porous air contact member contacting the cathode of each cell;

an anode end plate and a cathode end plate disposed at the side of the anodes of the cells and at the side of the cathodes of the cells, respectively;

fuel supply and discharge means for supplying fuel toward the anodes in the enclosed, contiguous hollow space and discharging the fuel;

a fuel flow stopper disposed at a portion at the part of the cathodes in the enclosed, contiguous hollow space, the fuel flow stopper preventing fuel flowing at a portion at the

part of the anodes in the hollow space from flowing toward the portion at the part of the cathodes in the enclosed, contiguous hollow space; and

a sealing member for sealing the anodes of the cells in said enclosed hollow, contiguous space and the portion of the hollow space corresponding to the anodes.

2. (Currently Amended) ~~The fuel cell pack of claim 1~~ A fuel cell pack including a plurality of cells each having a membrane, and a cathode at one side of the membrane and an anode at another side of the membrane, collector plates contacting the cathode and the anode, respectively, in each cell, and an electrical connection member for electrically connecting adjacent cells, at least two cells being provided, the cells being evenly disposed in a plane with a space interposed between two adjacent cells, the electrical connection member being positioned in the space, the fuel cell pack comprising:

a porous fuel diffusion member contacting the anode of each cell;

a porous air contact member contacting the cathode of each cell;

an anode end plate and a cathode end plate disposed at the side of the anodes of the cells and at the side of the cathodes of the cells, respectively;

fuel supply and discharge means for supplying fuel toward the anodes in the space and discharging the fuel;

a fuel flow stopper disposed at a portion at the part of the cathodes in the space, the fuel flow stopper preventing fuel flowing at a portion at the part of the anodes in the space from flowing toward the portion at the part of the cathodes in the space; and

a sealing member for sealing the anodes of the cells in said space and the portion of the space corresponding to the anodes, wherein a fuel inlet and a fuel outlet corresponding to the hollow space are disposed on the anode end plate.

3. (Original) The fuel cell pack of claim 1, wherein the porous fuel diffusion member is formed of a carbon-plastic composite.

4. (Original) The fuel cell pack of claim 3, wherein the porous fuel diffusion member comprises carbon or graphite impregnated therein.

5. (Original) The fuel cell pack of claim 1, wherein the porous air contact member is formed of a carbon-plastic composite.

6. (Previously Presented) The fuel cell pack of Claim 1, wherein the porous air contact member has a plurality of channels for the flow of air on the bottom thereof.

7. (Currently Amended) ~~The fuel cell pack of claim 1~~ A fuel cell pack including a plurality of cells each having a membrane, and a cathode at one side of the membrane and an anode at another side of the membrane, collector plates contacting the cathode and the anode, respectively, in each cell, and an electrical connection member for electrically connecting adjacent cells, at least two cells being provided, the cells being

evenly disposed in a plane with a space interposed between two adjacent cells, the electrical connection member being positioned in the space, the fuel cell pack comprising:

a porous fuel diffusion member contacting the anode of each cell;

a porous air contact member contacting the cathode of each cell;

an anode end plate and a cathode end plate disposed at the side of the anodes of the cells and at the side of the cathodes of the cells, respectively;

fuel supply and discharge means for supplying fuel toward the anodes in the space and discharging the fuel;

a fuel flow stopper disposed at a portion at the part of the cathodes in the space, the fuel flow stopper preventing fuel flowing at a portion at the part of the anodes in the space from flowing toward the portion at the part of the cathodes in the space; and

a sealing member for sealing the anodes of the cells in said space and the portion of the space corresponding to the anodes, wherein the electrical connection member has a shape of a mesh.

8. (Currently Amended) ~~The fuel cell pack of claim 1~~ A fuel cell pack including a plurality of cells each having a membrane, and a cathode at one side of the membrane and an anode at another side of the membrane, collector plates contacting the cathode and the anode, respectively, in each cell, and an electrical connection member for electrically connecting adjacent cells, at least two cells being provided, the cells being evenly disposed in a plane with a space interposed between two adjacent cells, the electrical connection member being positioned in the space, the fuel cell pack comprising:

a porous fuel diffusion member contacting the anode of each cell;

a porous air contact member contacting the cathode of each cell;

an anode end plate and a cathode end plate disposed at the side of the anodes of the cells and at the side of the cathodes of the cells, respectively;

fuel supply and discharge means for supplying fuel toward the anodes in the space and discharging the fuel;

a fuel flow stopper disposed at a portion at the part of the cathodes in the space, the fuel flow stopper preventing fuel flowing at a portion at the part of the anodes in the space from flowing toward the portion at the part of the cathodes in the space; and

a sealing member for sealing the anodes of the cells in said space and the portion of the space corresponding to the anodes, wherein through holes are formed in the collector plates contacting the cathodes and the cathode end plate such that the through holes in the collector plates correspond to those in the cathode end plate one to one.

9. (Currently Amended) A fuel cell pack including a plurality of cells each having a membrane, a cathode at one side of the membrane and an anode at another side of the membrane, collector plates contacting the cathode and the anode, respectively, in each cell, and an electrical connection member for electrically connecting adjacent cells, at least two cells being provided, the cells being disposed on opposite sides of an intermediate layer, which is provided with fuel supply and discharge means, with a an enclosed, contiguous hollow space of given volume interposed between two adjacent cells in the level direction of the intermediate layer, the electrical connection member being disposed in the

enclosed, contiguous hollow space, the anodes of the cells disposed on both sides of the intermediate layer contacting the intermediate layer, the fuel cell pack comprising:

a porous fuel diffusion member contacting the anode of each cell;

a porous air contact member contacting the cathode of each cell;

first and second end plates disposed at the respective sides of the cathodes of the cells;

a fuel flow stopper disposed at a portion corresponding to the cathodes of adjacent cells in the enclosed, contiguous hollow space, the fuel flow stopper preventing fuel flowing at a portion at the part of the anodes in the enclosed, contiguous hollow space from flowing toward the portion at the part of the cathodes in the enclosed, contiguous hollow space; and

a sealing member for sealing the anodes of the cells and the portion of a an enclosed, contiguous hollow space corresponding to the anodes.

10. (Original) The fuel cell pack of claim 9, wherein fuel is supplied to the anodes starting from anodes at the center of the fuel cell pack.

11. (Previously Presented) The fuel cell pack of claim 9, wherein at least two cells are disposed on each of both sides of the intermediate layer, and a fuel inlet and a fuel outlet which correspond to hollow spaces, respectively, between the cells are disposed in the intermediate layer at a predetermined interval.

12. (Original) The fuel cell pack of claim 9, wherein the porous fuel diffusion member is formed of a carbon-plastic composite.

13. (Original) The fuel cell pack of claim 9, wherein the porous fuel diffusion member comprises carbon or graphite impregnated therein.

14. (Previously Presented) The fuel cell pack of Claim 9, wherein the porous air contact member is formed of a carbon-plastic composite.

15. (Previously Presented) The fuel cell pack of Claim 9, wherein the air contact member has a plurality of channels for the flow of air on the bottom thereof.

16. (Currently Amended) ~~The fuel cell pack of claim 9~~ A fuel cell pack including a plurality of cells each having a membrane, a cathode at one side of the membrane and an anode at another side of the membrane, collector plates contacting the cathode and the anode, respectively, in each cell, and an electrical connection member for electrically connecting adjacent cells, at least two cells being provided, the cells being disposed on opposite sides of an intermediate layer, which is provided with fuel supply and discharge means, with a space of given volume interposed between two adjacent cells in the level direction of the intermediate layer, the electrical connection member being disposed in the space, the anodes of the cells disposed on both sides of the intermediate layer contacting the intermediate layer, the fuel cell pack comprising:

a porous fuel diffusion member contacting the anode of each cell;

a porous air contact member contacting the cathode of each cell;

first and second end plates disposed at the respective sides of the cathodes of the cells;

a fuel flow stopper disposed at a portion corresponding to the cathodes of adjacent cells in the space, the fuel flow stopper preventing fuel flowing at a portion at the part of the anodes in the space from flowing toward the portion at the part of the cathodes in the space; and

a sealing member for sealing the anodes of the cells and the portion of a space corresponding to the anodes, wherein the electrical connection member has a shape of a mesh.

17. (Currently Amended) A fuel cell pack comprising:

a plurality of cells in a plane, each of said plurality of cells including

a membrane;

a cathode at one side of the membrane;

a porous air contact member contacting the cathode;

an anode at an opposite side of the membrane;

a porous fuel diffusion member contacting said anode;

collector plates respectively contacting said cathode and the anode in each cell; and

an electrical connection member for electrically connecting adjacent cells within said cell pack,

wherein a an enclosed, contiguous hollow space is interposed between two adjacent cells in said cell pack and said electrical connection member being positioned in the enclosed, contiguous hollow space;

said cell pack further comprising:

fuel supply and discharge means for supplying fuel toward the anodes in the enclosed, contiguous hollow space and discharging the fuel;

a fuel flow stopper disposed in said enclosed, contiguous hollow space between and in a plane common with said cathodes, the fuel flow stopper preventing fuel supplied to adjacent anodes in said cell pack and in said enclosed, contiguous hollow space from flowing onto cathodes of adjacent fuel cells; and

a sealing member sealing a space containing the anodes of said adjacent cells.

18. (Currently Amended) ~~The fuel cell pack of claim 17~~ A fuel cell pack comprising:

a plurality of cells in a plane, each of said plurality of cells including

a membrane;

a cathode at one side of the membrane;

a porous air contact member contacting the cathode;

an anode at an opposite side of the membrane;

a porous fuel diffusion member contacting said anode;
collector plates respectively contacting said cathode and the anode in each
cell; and

an electrical connection member for electrically connecting adjacent cells
within said cell pack,

wherein a space is interposed between two adjacent cells in said cell pack
and said electrical connection member being positioned in the space;

said cell pack further comprising:

fuel supply and discharge means for supplying fuel toward the anodes in the
space and discharging the fuel;

a fuel flow stopper disposed in said space between and in a plane common
with said cathodes, the fuel flow stopper preventing fuel supplied to adjacent anodes in said
cell pack and in said space from flowing onto cathodes of adjacent fuel cells; and

a sealing member sealing a space containing the anodes of said adjacent
cells, wherein a fuel inlet and a fuel outlet corresponding to the hollow space are disposed
on an anode end plate disposed at the side of said adjacent anodes.

19. (Currently Amended) ~~The fuel cell pack of claim 17~~ A fuel cell pack
comprising:

a plurality of cells in a plane, each of said plurality of cells including

a membrane;

a cathode at one side of the membrane;

a porous air contact member contacting the cathode;
an anode at an opposite side of the membrane;
a porous fuel diffusion member contacting said anode;
collector plates respectively contacting said cathode and the anode in each
cell; and

an electrical connection member for electrically connecting adjacent cells
within said cell pack,

wherein a space is interposed between two adjacent cells in said cell pack
and said electrical connection member being positioned in the space;

said cell pack further comprising:

fuel supply and discharge means for supplying fuel toward the anodes in the
space and discharging the fuel;

a fuel flow stopper disposed in said space between and in a plane common
with said cathodes, the fuel flow stopper preventing fuel supplied to adjacent anodes in said
cell pack and in said space from flowing onto cathodes of adjacent fuel cells; and

a sealing member sealing a space containing the anodes of said adjacent
cells, wherein the electrical connection member is in a mesh.

20. (Currently Amended) ~~The fuel cell pack of claim 17~~ A fuel cell pack
comprising:

a plurality of cells in a plane, each of said plurality of cells including

a membrane;

a cathode at one side of the membrane;

a porous air contact member contacting the cathode;

an anode at an opposite side of the membrane;

a porous fuel diffusion member contacting said anode;

collector plates respectively contacting said cathode and the anode in each cell; and

an electrical connection member for electrically connecting adjacent cells within said cell pack.

wherein a space is interposed between two adjacent cells in said cell pack and said electrical connection member being positioned in the space;

said cell pack further comprising:

fuel supply and discharge means for supplying fuel toward the anodes in the space and discharging the fuel;

a fuel flow stopper disposed in said space between and in a plane common with said cathodes, the fuel flow stopper preventing fuel supplied to adjacent anodes in said cell pack and in said space from flowing onto cathodes of adjacent fuel cells; and

a sealing member sealing a space containing the anodes of said adjacent cells, wherein through holes are formed in the collector plate contacting the cathode in at least one of said plurality of fuel cells and a cathode end plate disposed at the side of said adjacent cathodes in said fuel cell pack such that the through holes in the collector plate corresponding to those in the cathode end plate in one-to-one correspondence.